

# 330400 and 330425 Accelerometer Acceleration Transducers

Datasheet

**Cordant™**

141638 Rev. AB



## Description

These accelerometers are intended for critical machinery applications where casing acceleration measurements are required, such as gear mesh monitoring. The 330400 is designed to address the requirements of American Petroleum Institute Standard 670 for accelerometers. It provides an amplitude range of 50 g peak and a sensitivity of 100 mV/g. The 330425 is identical except it provides a larger amplitude range (75 g peak) and a sensitivity of 25 mV/g.



Most common machine malfunctions (unbalance, misalignment, etc.) occur on the rotor and originate as an increase (or at least a change) in rotor vibration. For any individual casing measurement to be effective for overall machine protection, the system must continually transmit a significant amount of rotor vibration to the machine casing, or mounting location of the transducer.

In addition, be careful to install the accelerometer transducer on the bearing housing or machine casing. Improper installation may decrease the transducer amplitude and frequency response and/or generate false signals that do not represent actual vibration. Refer to the appropriate instruction manuals and Application Notes.

Upon request, Bently Nevada provides engineering services that can identify the appropriate machine housing measurements and installation assistance if needed.



**Baker Hughes**

## Ordering Information



For the detailed listing of country and product-specific approvals, refer to the [Approvals Quick Reference Guide \(108MI756\)](#).

For additional technical documentation, please log in to [bntechsupport.com](http://bntechsupport.com) and access the Bently Nevada Media Library.

### 330400 Accelerometer

### 330425 Accelerometer

#### Part Number-AA-BB

##### A: Mounting Thread Option

<b>0 1</b>	¼-28 UNF integral stud
<b>0 2</b>	M8 X 1 integral stud

##### B: Agency Approval Option

<b>0 0</b>	None
<b>0 5</b>	Multiple approvals (CSA, ATEX, IECEx,)

## Interconnect Cables

#### Part Number-AA

A:	Cable Length Option in feet
	For the cables listed below, order in increments of 1.0 ft (305 mm).

Examples:

**1 5** = 15 ft (4.57 m)

**2 0** = 20 ft (6.10 m)

#### The following are standard lengths

Feet	Metres (approx.)
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6	1.8
8	2.4
10	3.0
12	3.6
15	4.5
17	5.0
20	6.0
25	7.6
50	15.2
99	30.0



Non-standard/custom lengths can also be ordered at additional cost.

#### Cable Part Numbers

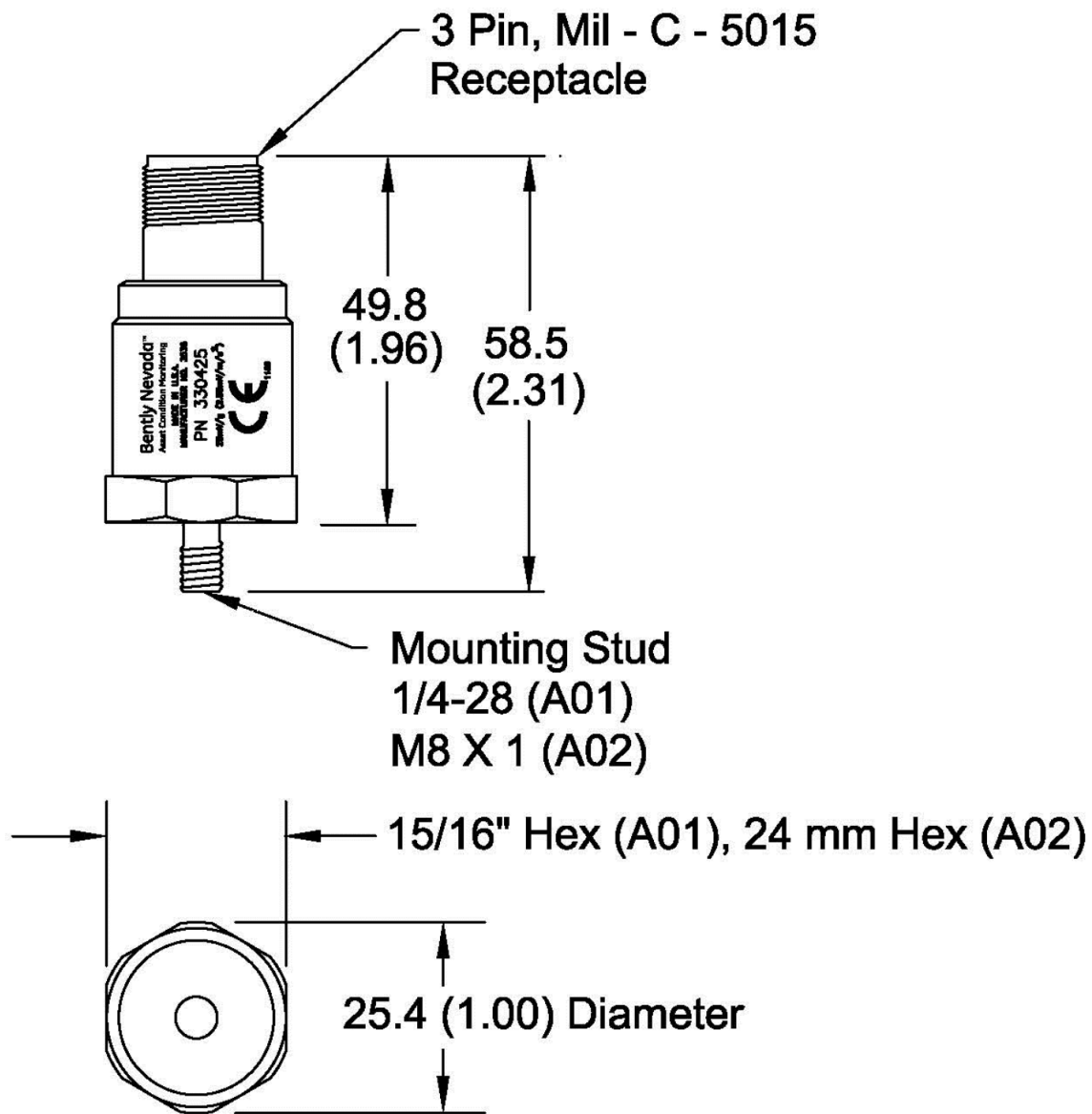
130539	3-conductor shielded 18 AWG (1.0 mm <sup>2</sup> ) cable with 3-socket plug and fluorosilicone elastomer boot at one end, terminal lugs at the other end. Minimum length of 2.0 ft (0.6 m), maximum length of 99 ft (30 m). A manual is available to assist with installation of this cable (part number 133080-01).
16925	3-conductor shielded 22 AWG (0.5 mm <sup>2</sup> ) cable with 3-socket plug at one end, terminal lugs at the other end. Minimum length of 2.0 ft (0.6 m), maximum length of 99 ft (30 m).

16710	3-conductor shielded 22 AWG (0.5 mm <sup>2</sup> ) armored cable with 3-socket plug at one end, terminal lugs at the other end. Minimum length of 3.0 ft (0.9 m), maximum length of 99 ft (30 m).
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## Accessories

127088	330400 and 330425 Accelerometer User Guide
00531080	Mating connector for 330400 and 330425 Accelerometers.
37439-01	For use with serial numbers NOT preceded with the letter "G".  Mounting Base, ¼-28 to ¼-28. Reduces base strain sensitivity.
37439-02	For use with serial numbers NOT preceded with the letter "G".  Mounting Base, M8X1 to M8X1. Reduces base strain sensitivity.
43217	Accelerometer Mounting Kit used with extension part number 108576-01 and O-ring part number 04290422 to allow room for the 330400 or 330425 accelerometer. (See separate datasheet, document 141630.)

## Graphs and Figures



**Figure 1: Acceleration Transducer Dimensional Drawing**

Dimensions are in millimetres (inches)